

IN THE CLAIMS:

Kindly amend claims 1, 10 and 13, and add new claims 22-32 as shown in the following listing of claims, which replaces all previous versions and listings of claims.

1. (currently amended) An electronic apparatus comprising: a movable member movably driven to perform a given function; a position detecting device for detecting the position of the movable member; an actuator having a moving member movably driven to drive the movable member; a readable member for providing location information of the movable member; and a guide member for maintaining a fixed relative orientation between holding the movable member, the actuator and the readable member by permitting assembly of the movable member and the readable member in the electronic apparatus in only one way by which the relative orientation is fixed by the assembly, thereby avoiding the need for manual adjustment of the relative orientation after assembly in a fixed orientation with respect to each other.

2. (previously presented) An electronic apparatus according to claim 1; wherein a sectional shape of the guide member is non-circular.

3. (previously presented) An electronic apparatus according to claim 1; wherein the guide member is formed integrally with at least one of the moving member, the readable member and the movable member.

4. (previously presented) An electronic apparatus according to claim 1; wherein at least two of the movable member, the moving member and the readable member are integrally formed.

5. (previously presented) An electronic apparatus according to claim 1; wherein the movable member is mounted to undergo rotary motion, and the guide member is fixed to a position offset from a center of rotation of the movable member.

6. (previously presented) An electronic apparatus according to claim 1; wherein the actuator is an ultrasonic motor.

7. (previously presented) An electronic apparatus according to claim 1; wherein the readable member has a fixing member that allows fixing of the readable member to the guide member in only one given manner to eliminate the need for initial adjustment of the relative positions of the movable member and the readable member.

8. (previously presented) An electronic apparatus according to claim 1; wherein the movable member comprises one of an indicator hand of a display, a rotating mirror, or an optical attenuator.

9. (previously presented) An electronic apparatus according to claim 1; wherein the readable member has a plurality of slits; and the position detecting device comprises a light emitting device disposed on one side of the slits for emitting light through the respective slits, and a light receiving device disposed on an opposite side of the slits for receiving light passing through the slits and outputting a corresponding signal.

10. (currently amended) An electronic apparatus comprising: a movable member movably driven to perform a given function; a moving mechanism in contact with the movable member for driving the movable member to a desired location; a position detecting apparatus having a readable member moved in conjunction with the movable member and a reading device for reading the readable member to provide location information of the movable member; and a guide member for maintaining a fixed relative orientation between holding the readable member and the movable member by permitting assembly of the movable member and the readable member in the electronic apparatus

only one way by which the relative orientation is fixed by the assembly, thereby avoiding the need for manual adjustment of the relative orientation after assembly in a fixed orientation with respect to the moving mechanism to prevent misalignment therebetween.

11. (previously presented) An electronic apparatus according to claim 10; wherein the readable member has a fixing member that allows fixing of the readable member to the guide member in only one given manner to eliminate the need for initial adjustment of the relative positions of the readable member and the movable member.

12. (previously presented) An electronic apparatus according to claim 10; wherein the moving mechanism comprises a motor and a moving member driven by the motor, the moving member being in contact with the movable member so that the motor drives the moving member to move the movable member.

13. (currently amended) An electronic apparatus according to claim 12; wherein the motor is an ultrasonic motor comprising a vibrator having a piezoelectric element thereon for producing ultrasonic vibrations in the vibrator, and a plurality of projections extending from the vibrator; and the moving member is disposed on the projections to undergo movement in response to the ultrasonic vibrations.

14. (previously presented) An electronic apparatus according to claim 13; wherein the vibrator and the movable member are mounted on a shaft so that the movable member is angularly driven about the shaft as a center of rotation in response to the ultrasonic vibrations.

15. (previously presented) An electronic apparatus according to claim 14; wherein the movable member comprises one of an indicator hand of a display, a rotating mirror, or an optical attenuator.

16. (previously presented) An electronic apparatus according to claim 10; wherein the readable member has a plurality of slits, and the reading device comprises a light emitting device disposed on one side of the slits for emitting light through the respective slits, and a light receiving device disposed on an opposite side of the slits for receiving light passing through the slits and outputting a corresponding signal.

17. (previously presented) An electronic apparatus according to claim 16; further comprising a control circuit for controlling the moving mechanism based on an output signal of the light receiving device.

18. (previously presented) An electronic apparatus according to claim 10; wherein a sectional shape of the guide member is non-circular.

19. (previously presented) An electronic apparatus according to claim 10; wherein the guide member is formed integrally with at least one of the moving mechanism, the readable member and the movable member.

20. (previously presented) An electronic apparatus according to claim 10; wherein at least two of the movable member, the moving mechanism and the readable member are integrally formed.

21. (previously presented) An electronic apparatus device according to claim 10; wherein the guide member is fixed to a position offset from a center of rotation of the movable member.

22. (new) An electronic apparatus comprising: a motor; a movable member driven by the motor; a readable member mounted to undergo movement in unison with the movable member; and a detecting device for detecting movement of the readable member; wherein the readable member and the movable member are configured such that a predefined relative orientation therebetween is obtained by assembly of the readable member

and the movable member in the electronic apparatus thereby avoiding the need for manual adjustment of the relative orientation after assembly.

23. (new) An electronic apparatus comprising: an actuator; a moving body driven by the actuator; a movable member mounted to undergo movement with the moving body; a readable member mounted to undergo movement with the moving body; and a detecting device for detecting movement of the readable member; wherein the readable member and the movable member are configured such that a predefined relative orientation therebetween is obtained by assembly of the readable member and the movable member in the electronic apparatus to thereby avoid the need for manual adjustment of the relative orientation after assembly.

24. (new) An electronic apparatus according to claim 23; wherein the actuator rotatably moves the moving body and the movable member, so that the readable member also undergoes rotational movement.

25. (new) An electronic apparatus according to claim 24; further comprising a guide member for positioning the readable member and the movable member, the guide member being located at a position offset from a center of rotation of the movable member.

26. (new) An electronic apparatus according to claim 25; wherein the guide member comprises a guide shaft extending through through-holes formed in the readable member and the movable member and fixedly engaging the readable member and the movable member about a periphery of the through-holes.

27. (new) An electronic apparatus according to claim 26; wherein the guide shaft has a cut-out portion having a semi-circular cross-sectional shape, and the through-holes formed in the readable member and the movable member have a semi-circular shape to engage the cut-out portion of the guide shaft.

28. (new) An electronic apparatus according to claim 23; wherein the readable member and the movable member are integrally formed.

29. (new) An electronic apparatus according to claim 23; wherein the readable member comprises an encoder having a slit used for detecting movement of the readable member, and the detecting device comprises a light emitting element and a light receiving element.

30. (new) An electronic apparatus according to claim 23; wherein the electronic apparatus is a variable attenuator.

31. (new) An electronic apparatus according to claim 23; wherein the movable member is an optical fiber fixing device.

32. (new) An electronic apparatus comprising: a motor; a disc-shaped readable member rotary driven by the motor and having at least one first slit and an optical amount adjusting slit having an arcuate shape with a radius of curvature identical to that of a rotational path of the readable member, and having a width that tapers along the arcuate shape thereof; and a detecting device for detecting rotation of the readable member and having a light emitting element and a light receiving element sandwiching the readable member so that light is projected through the at least one first slit once for each revolution of the readable member.

IN THE DRAWINGS:

Submitted herewith is a replacement sheet for Fig. 2 which has been labeled with a "Prior Art" legend.